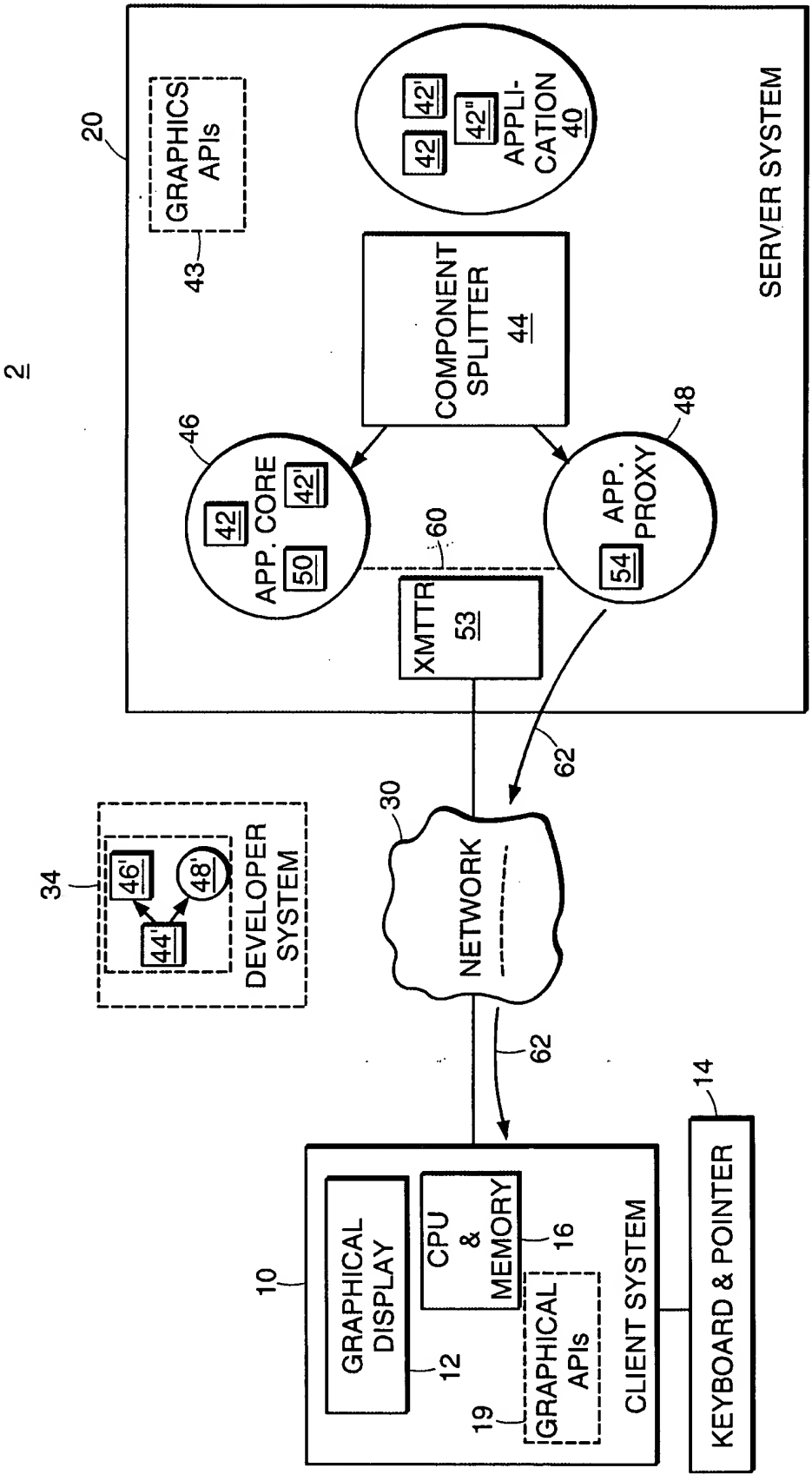

2
SERVER SYSTEM
20
GRAPHICS APIs
43
42
42'
42"
APPLI-CATION 40
COMPONENT SPLITTER 44
46
APP. CORE
42
42'
50
60
XMTTR 53
48
APP. PROXY
54
62
30
NETWORK
34
DEVELOPER SYSTEM
46'
48'
44'
62
14
10
GRAPHICAL DISPLAY
12
CPU & MEMORY
16
GRAPHICAL APIs
19
CLIENT SYSTEM
KEYBOARD & POINTER

FIG. 1

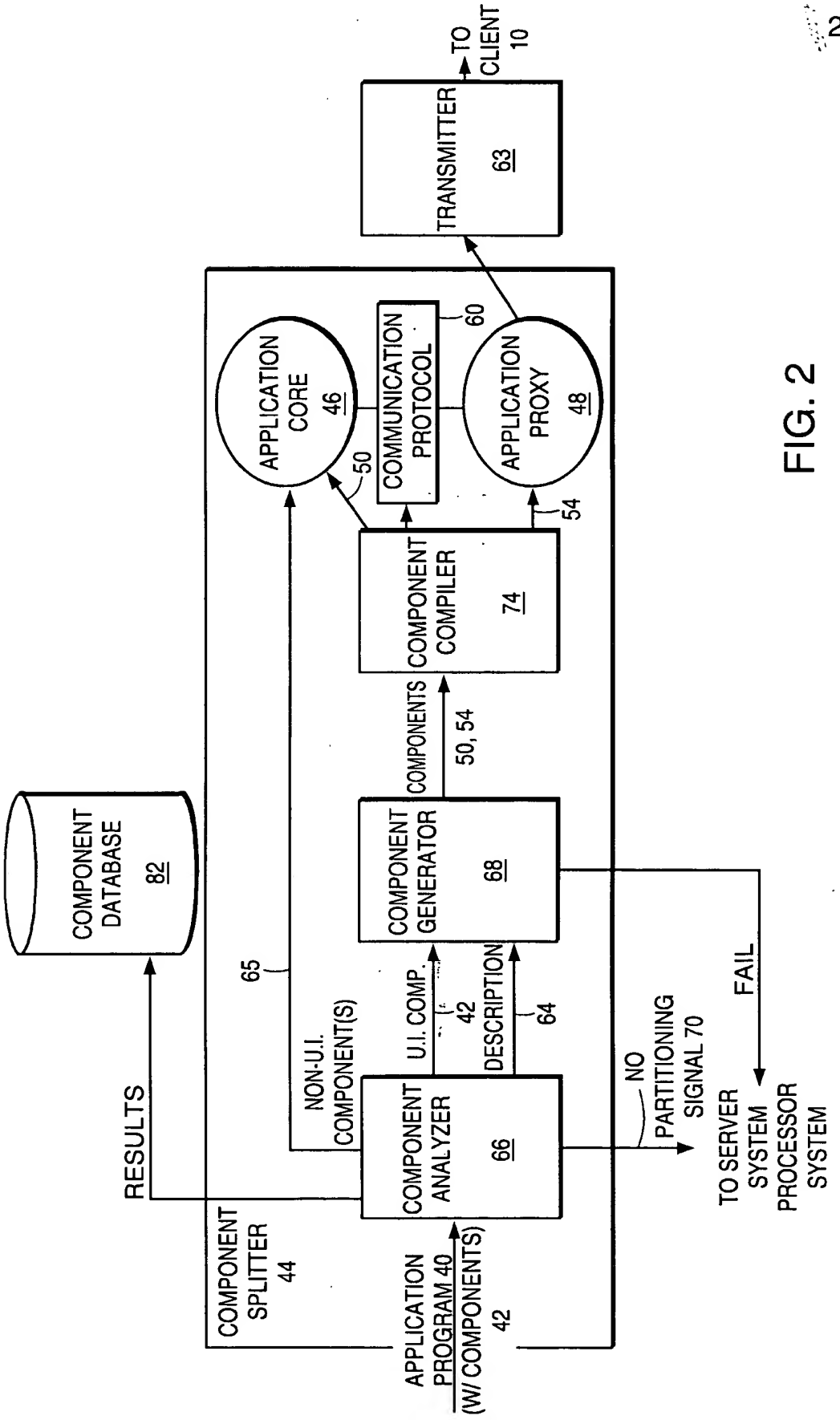
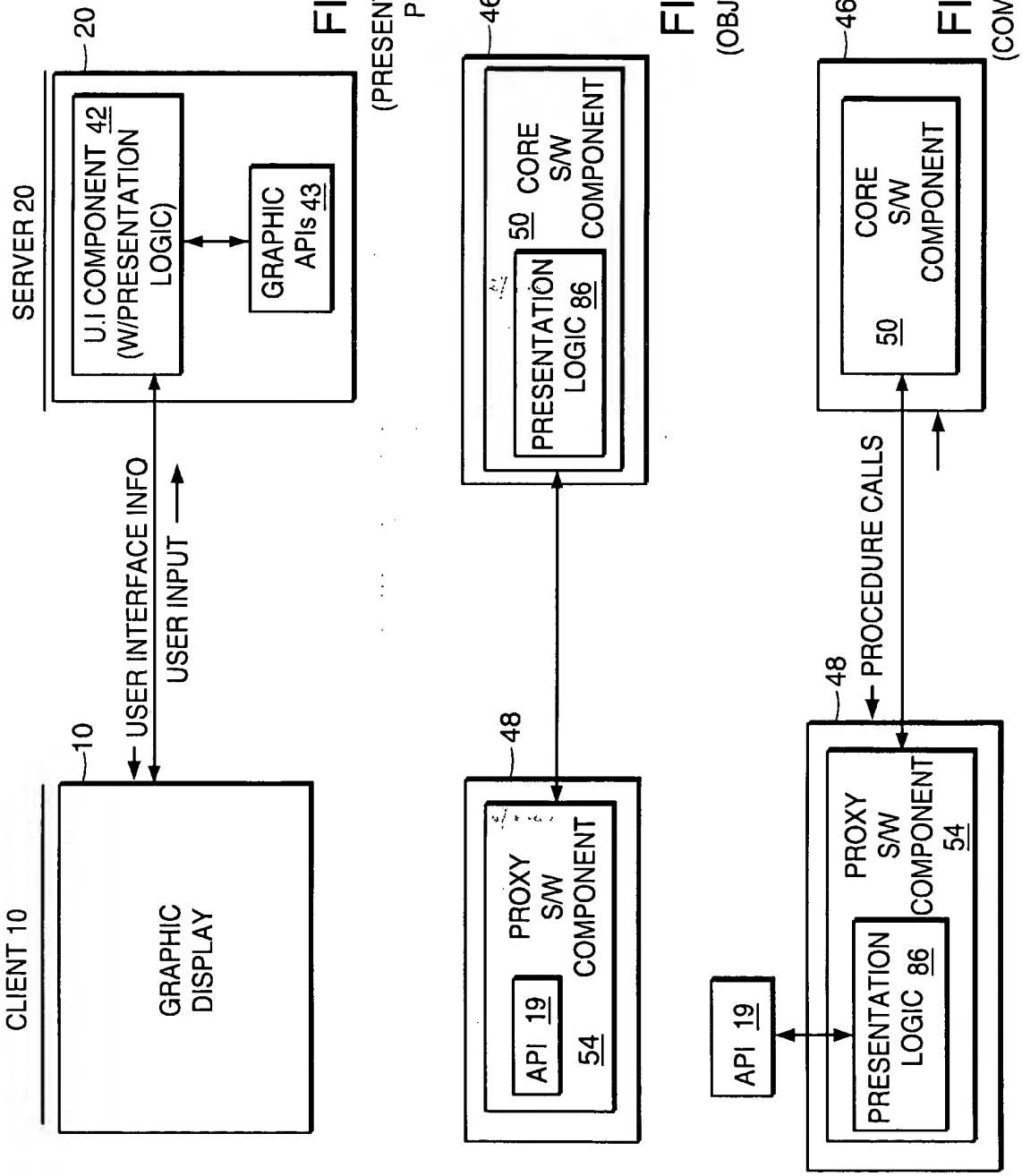

TO CLIENT 10
TRANSMITTER 63
APPLICATION CORE 46
COMMUNICATION PROTOCOL
60
APPLICATION PROXY 48
50
54
COMPONENT COMPILER 74
COMPONENTS
50, 54
COMPONENT DATABASE 82
COMPONENT GENERATOR 68
65
NON-U.I. COMPONENT(S)
U.I. COMP. 42
DESCRIPTION 64
RESULTS
COMPONENT ANALYZER 66
NO PARTITIONING SIGNAL 70
FAIL
TO SERVER SYSTEM PROCESSOR SYSTEM
COMPONENT SPLITTER 44
APPLICATION PROGRAM 40 (W/ COMPONENTS) 42

FIG. 2


CLIENT 10
GRAPHIC DISPLAY
10
USER INTERFACE INFO
USER INPUT
SERVER 20
U.I COMPONENT 42 (W/PRESENTATION LOGIC)
GRAPHIC APIs 43
20
FIG. 3A
(PRESENTATION SERVICES PROTOCOL)
PROXY S/W COMPONENT 54
API 19
48
CORE S/W COMPONENT 50
PRESENTATION LOGIC 86
46
FIG. 3B
(OBJECT PROTOCOL)
PROCEDURE CALLS
FIG. 3C
(COMPONENT PROTOCOL)

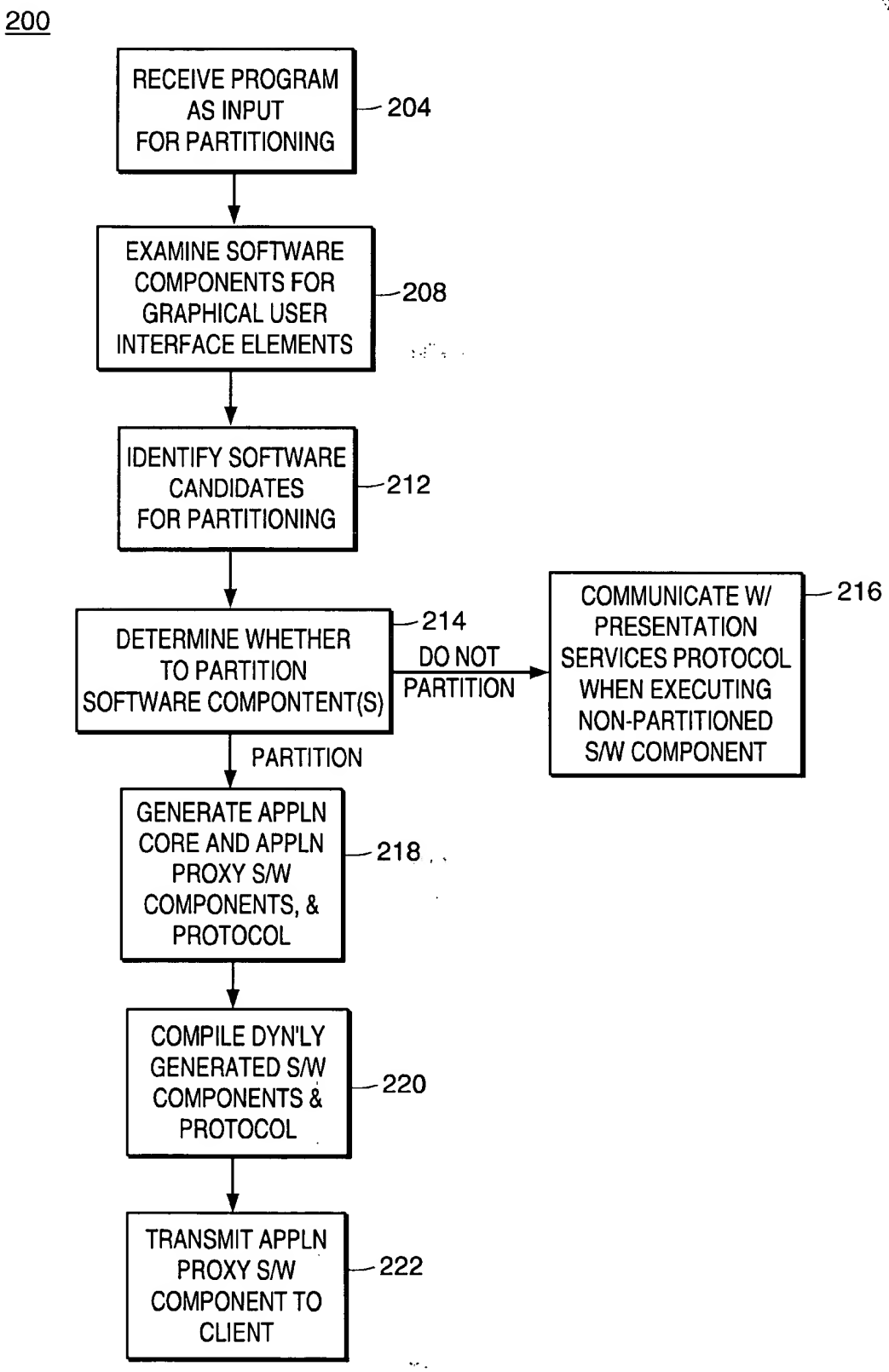

200
RECEIVE PROGRAM AS INPUT FOR PARTITIONING
204
EXAMINE SOFTWARE COMPONENTS FOR GRAPHICAL USER INTERFACE ELEMENTS
208
IDENTIFY SOFTWARE CANDIDATES FOR PARTITIONING
212
DETERMINE WHETHER TO PARTITION SOFTWARE COMPONTENT(S)
214
DO NOT PARTITION
COMMUNICATE W/ PRESENTATION SERVICES PROTOCOL WHEN EXECUTING NON-PARTITIONED S/W COMPONENT
216
PARTITION
GENERATE APPLN CORE AND APPLN PROXY S/W COMPONENTS, & PROTOCOL
218
COMPILE DYN'LY GENERATED S/W COMPONENTS & PROTOCOL
220
TRANSMIT APPLN PROXY S/W COMPONENT TO CLIENT
222

FIG. 4

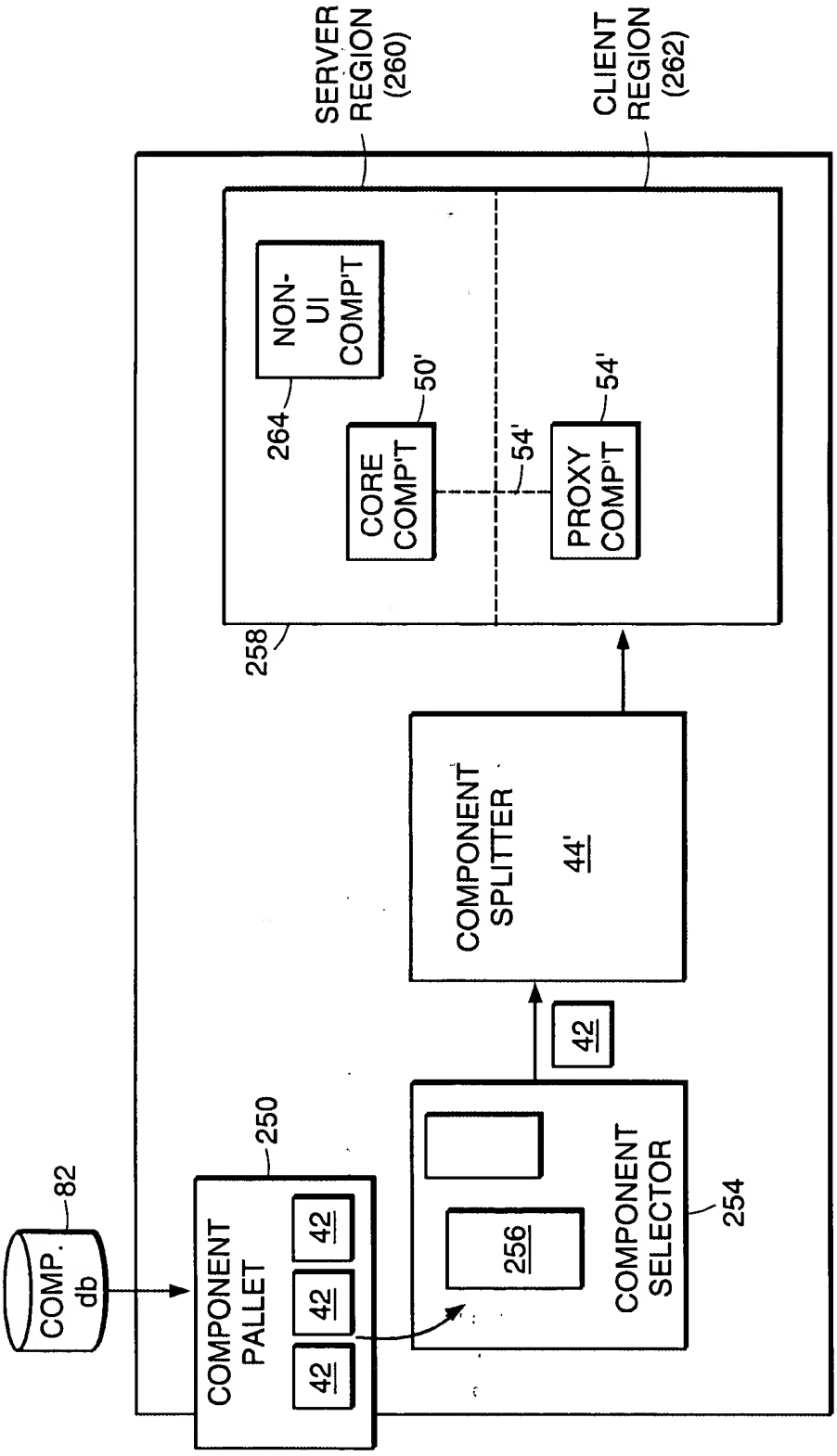

SERVER REGION (260)
CLIENT REGION (262)
NON-UI COMP'T
264
CORE COMP'T
50'
54'
PROXY COMP'T
54'
258
COMPONENT SPLITTER
44'
42
COMPONENT SELECTOR
254
256
250
COMPONENT PALLET
42
42
42
COMP. db
82

FIG. 5

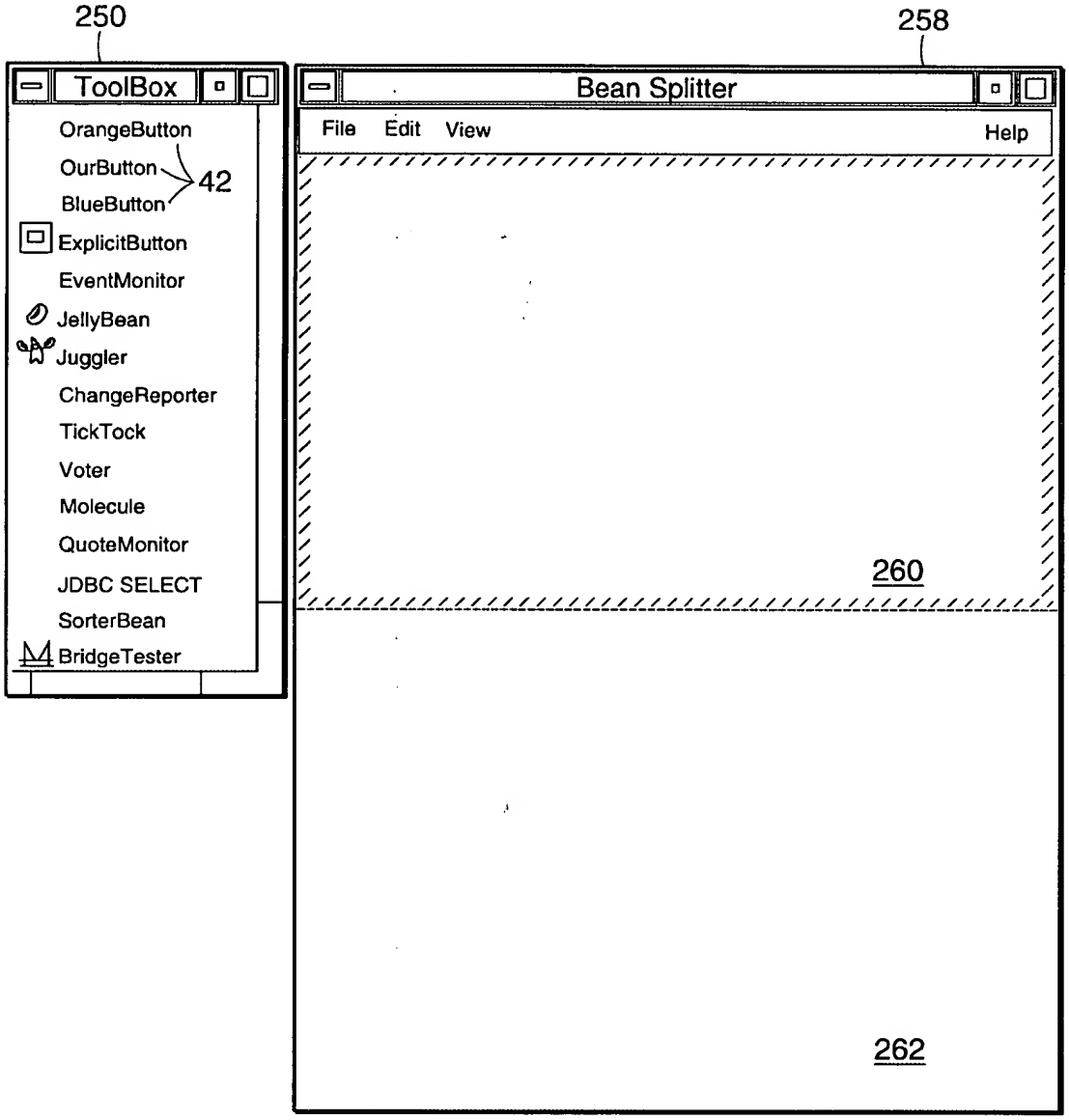


FIG. 6A

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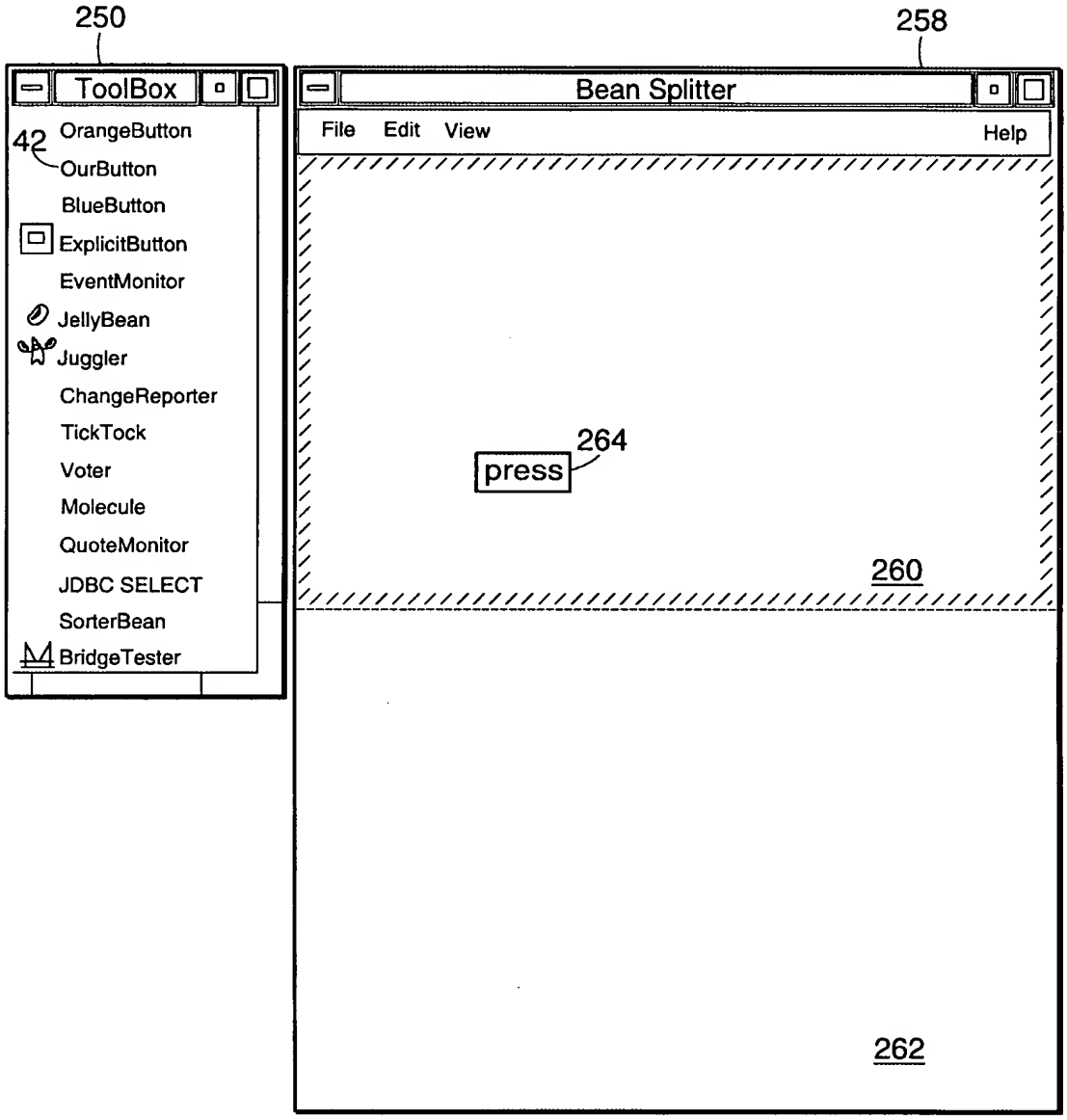

FIG. 6B

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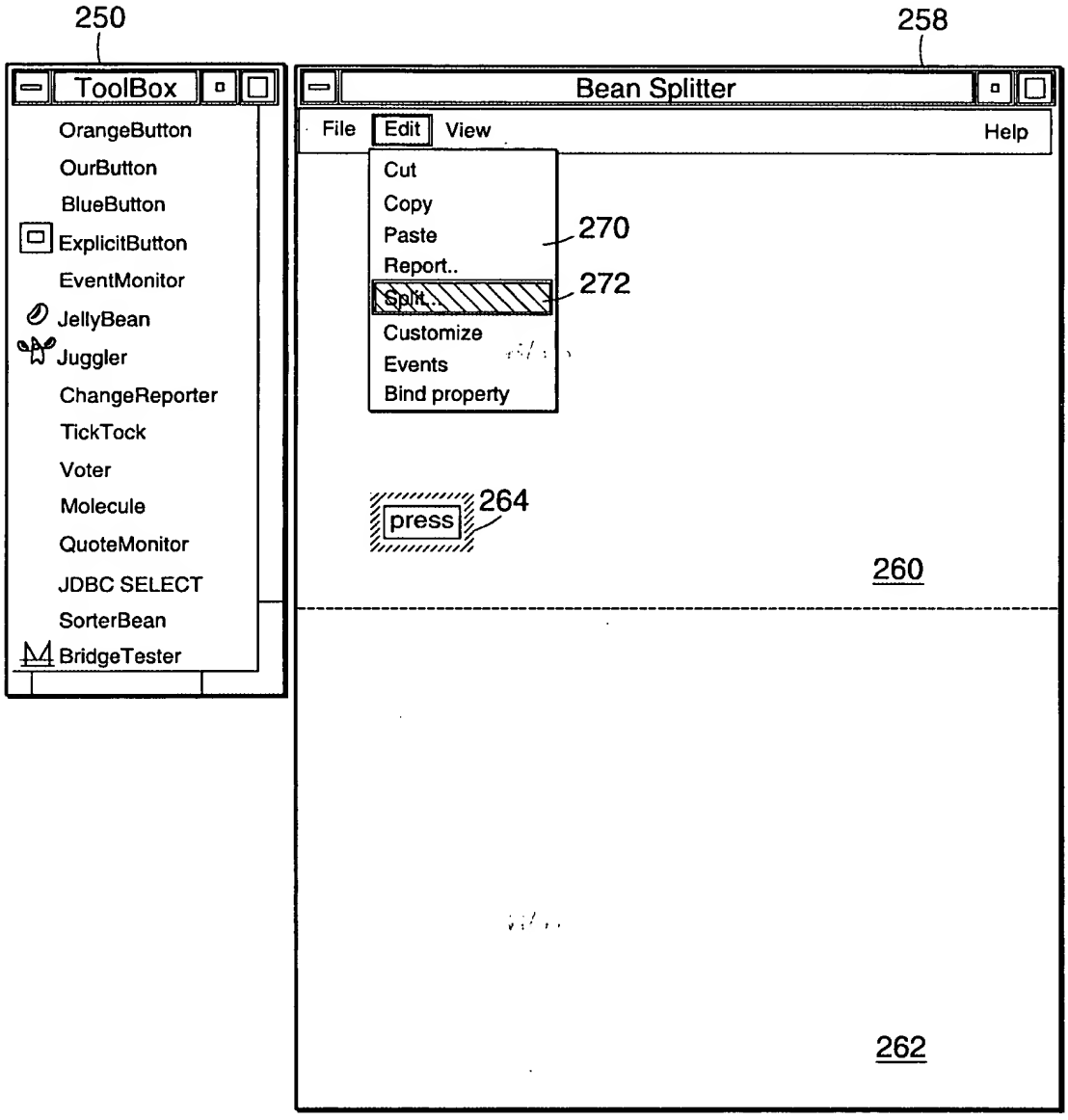
250
258
ToolBox
OrangeButton
OurButton
BlueButton
ExplicitButton
EventMonitor
JellyBean
Juggler
ChangeReporter
TickTock
Voter
Molecule
QuoteMonitor
JDBC SELECT
SorterBean
BridgeTester
Bean Splitter
File
Edit
View
Help
Cut
Copy
Paste
Report..
Split..
Customize
Events
Bind property
270
272
press
264
260
262

FIG. 6C

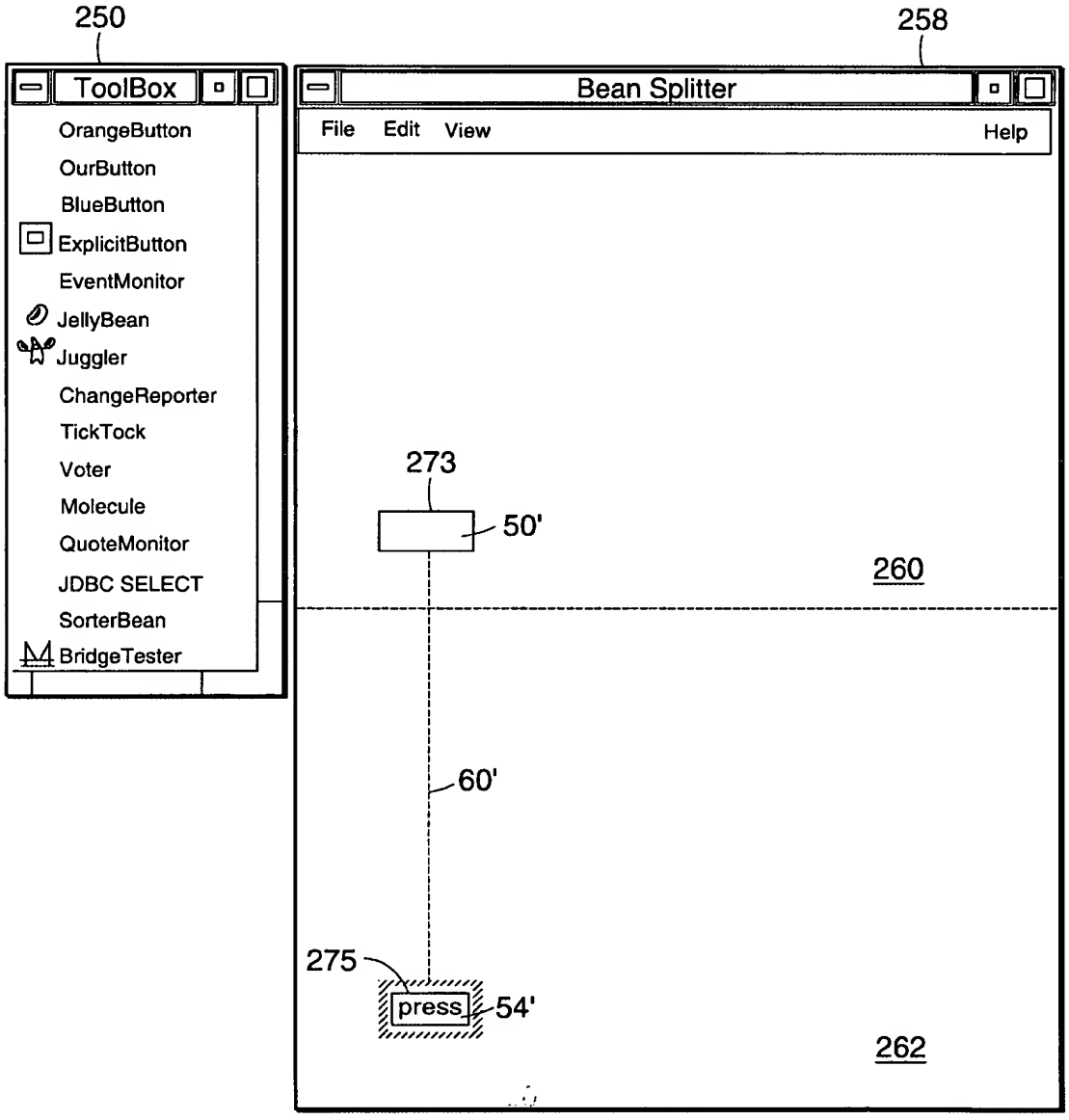
250
258
ToolBox
OrangeButton
OurButton
BlueButton
ExplicitButton
EventMonitor
JellyBean
Juggler
ChangeReporter
TickTock
Voter
Molecule
QuoteMonitor
JDBC SELECT
SorterBean
BridgeTester
Bean Splitter
File
Edit
View
Help
273
50'
260
60'
275
press
54'
262

FIG. 6D

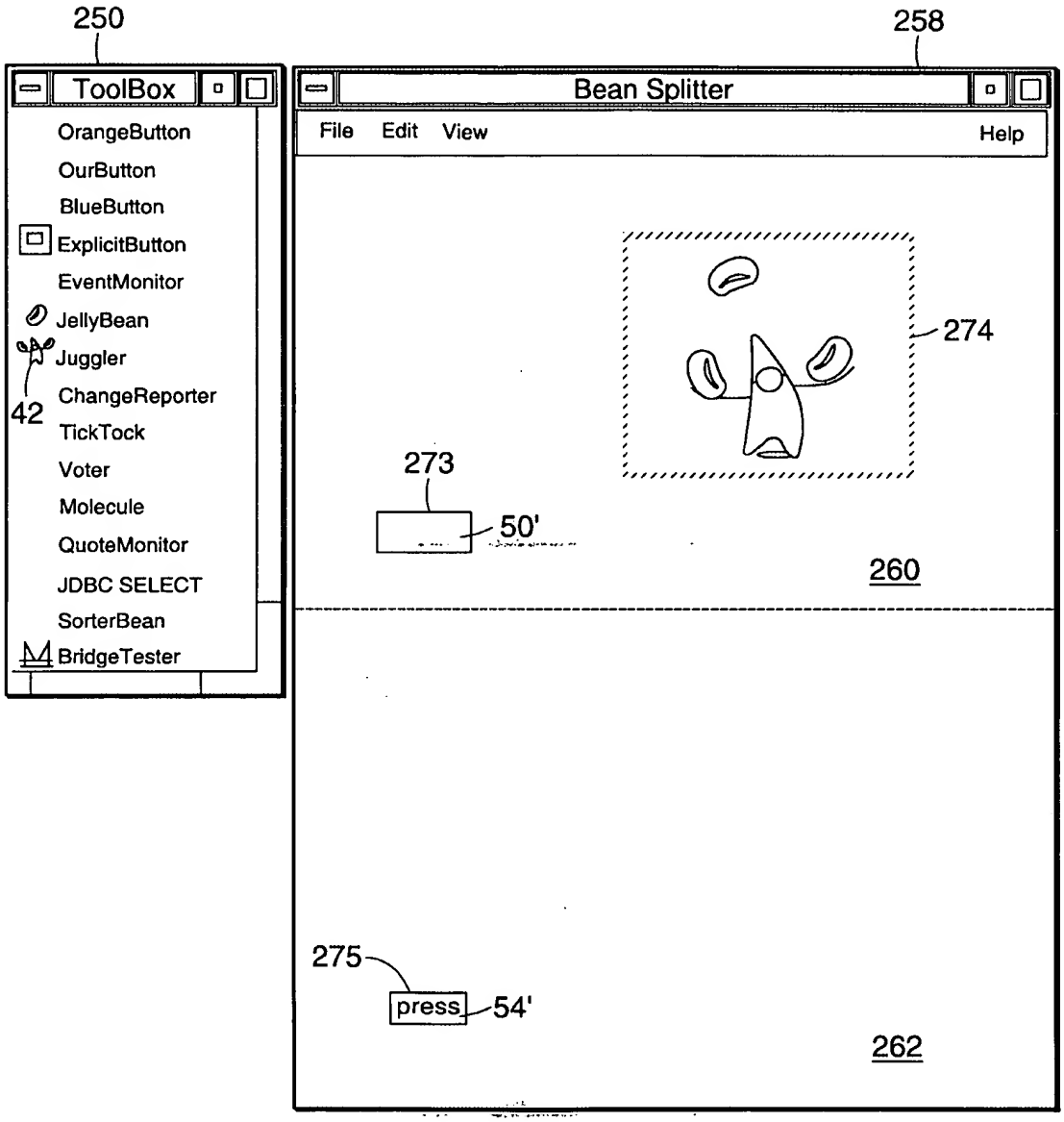
250
258
ToolBox
OrangeButton
OurButton
BlueButton
ExplicitButton
EventMonitor
JellyBean
Juggler
ChangeReporter
TickTock
Voter
Molecule
QuoteMonitor
JDBC SELECT
SorterBean
BridgeTester
42
Bean Splitter
File
Edit
View
Help
274
273
50'
260
275
press
54'
262

FIG. 6E

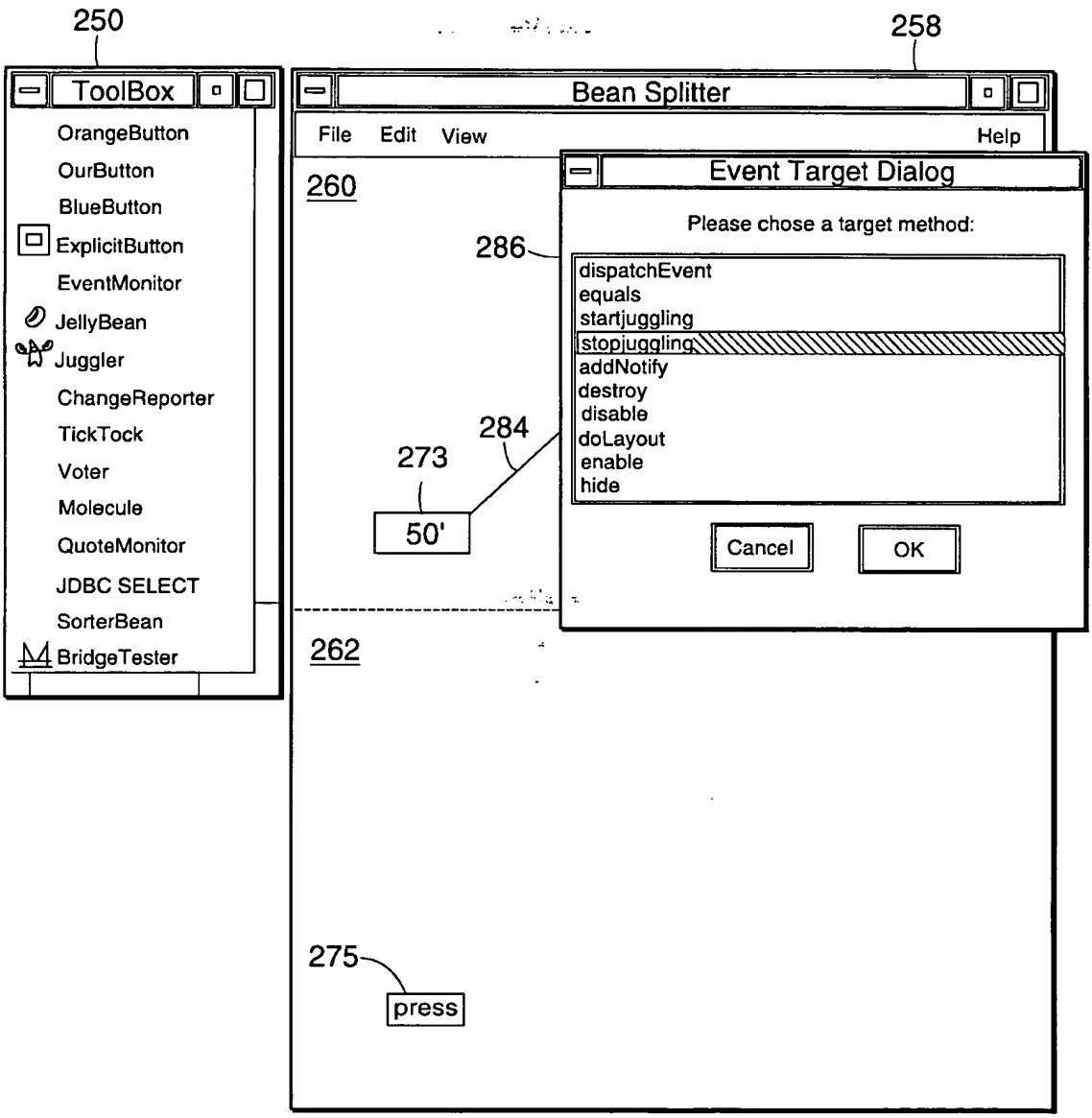
250
258
ToolBox
OrangeButton
OurButton
BlueButton
ExplicitButton
EventMonitor
JellyBean
Juggler
ChangeReporter
TickTock
Voter
Molecule
QuoteMonitor
JDBC SELECT
SorterBean
BridgeTester
Bean Splitter
File
Edit
View
Help
260
Event Target Dialog
Please chose a target method:
286
dispatchEvent
equals
startjuggling
stopjuggling
addNotify
destroy
disable
doLayout
enable
hide
284
273
50'
Cancel
OK
262
275
press

FIG. 6H

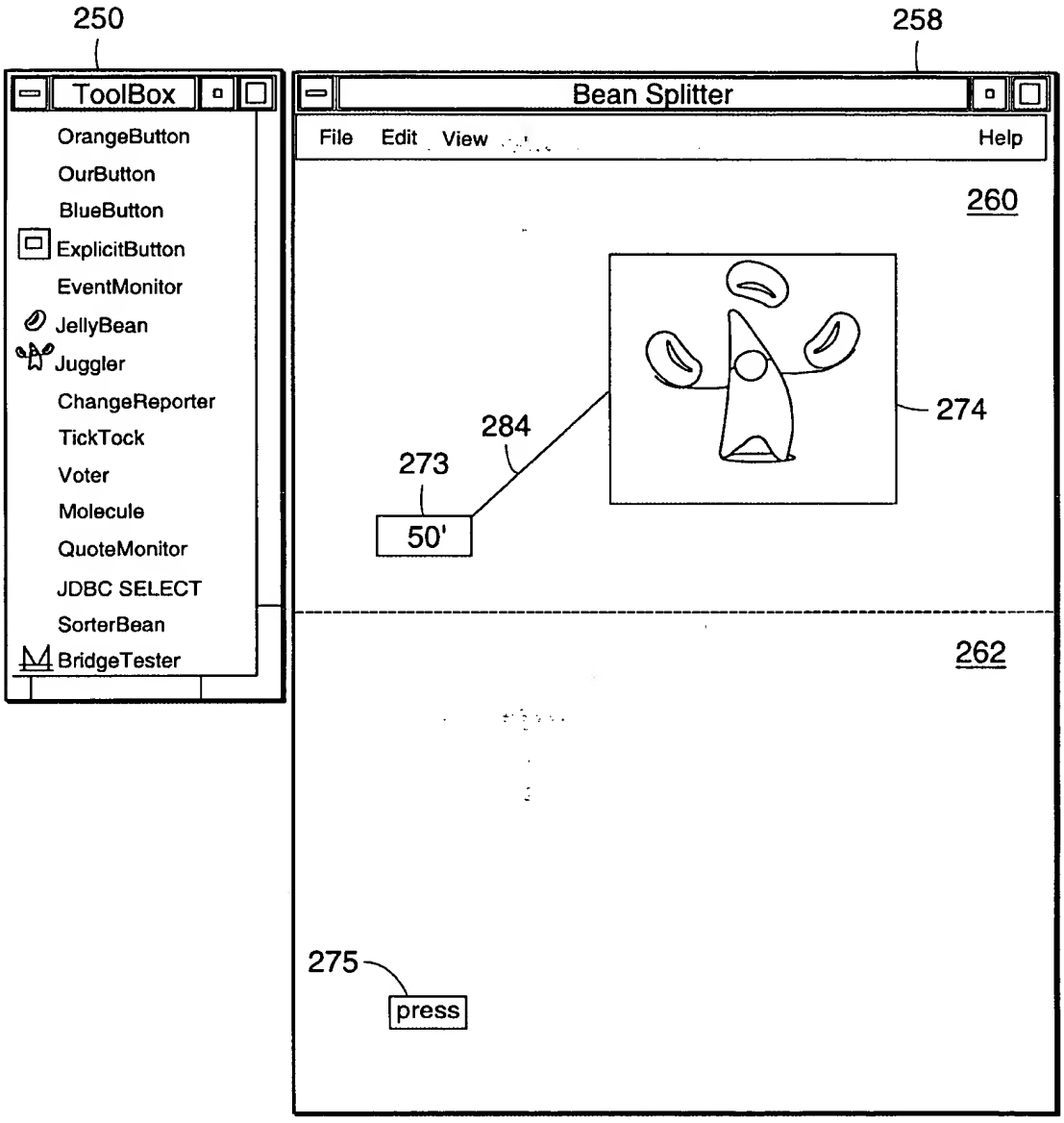
250
258
ToolBox
OrangeButton
OurButton
BlueButton
ExplicitButton
EventMonitor
JellyBean
Juggler
ChangeReporter
TickTock
Voter
Molecule
QuoteMonitor
JDBC SELECT
SorterBean
BridgeTester
Bean Splitter
File
Edit
View
Help
260
274
284
273
50'
262
275
press

FIG. 6G

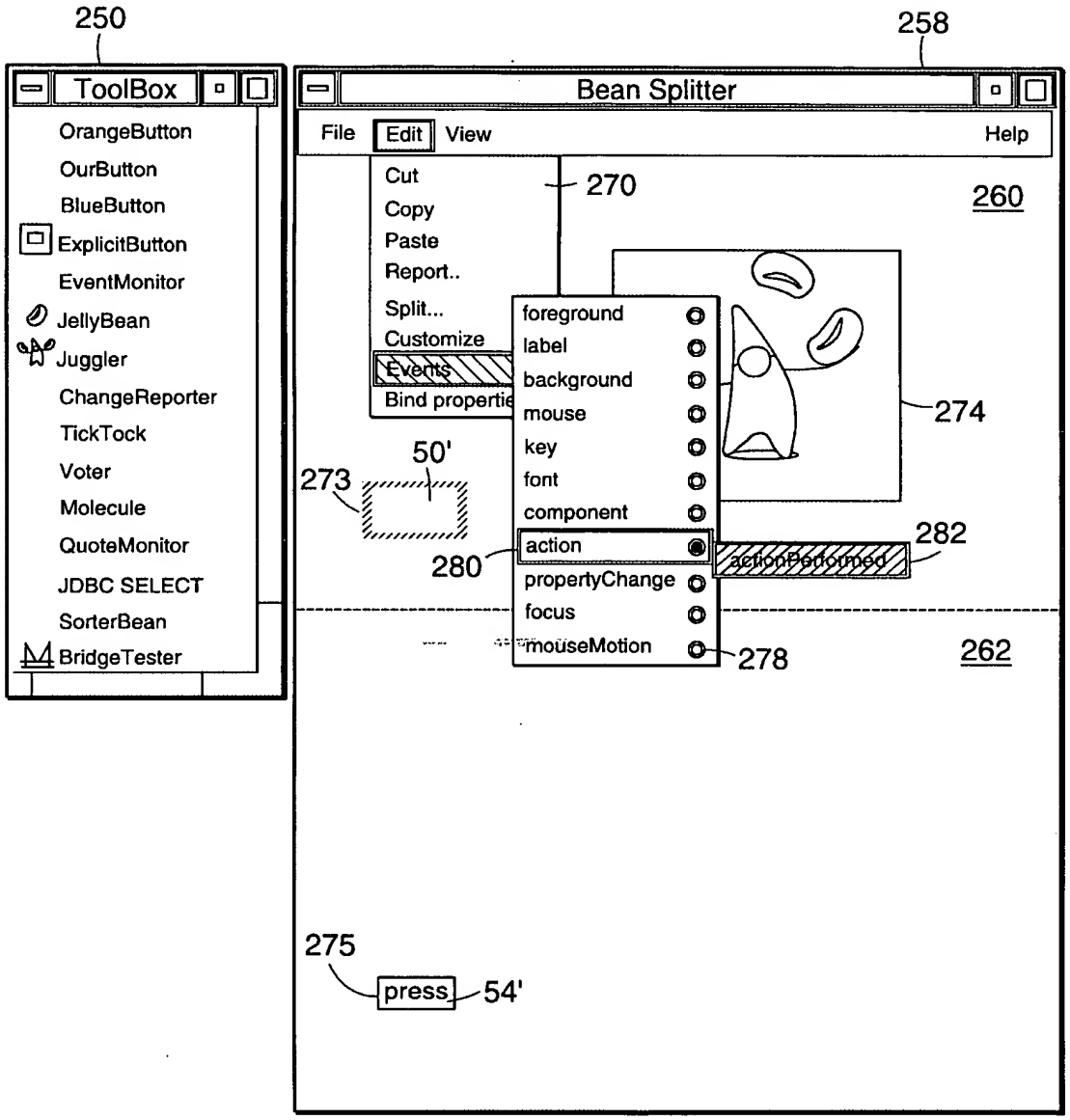
250
258
ToolBox
OrangeButton
OurButton
BlueButton
ExplicitButton
EventMonitor
JellyBean
Juggler
ChangeReporter
TickTock
Voter
Molecule
QuoteMonitor
JDBC SELECT
SorterBean
BridgeTester
Bean Splitter
File
Edit
View
Help
Cut
Copy
Paste
Report..
Split...
Customize
Events
Bind properties
270
260
foreground
label
background
mouse
key
font
component
action
propertyChange
focus
mouseMotion
actionPerformed
274
50'
273
280
282
278
262
275
press
54'

FIG. 6F

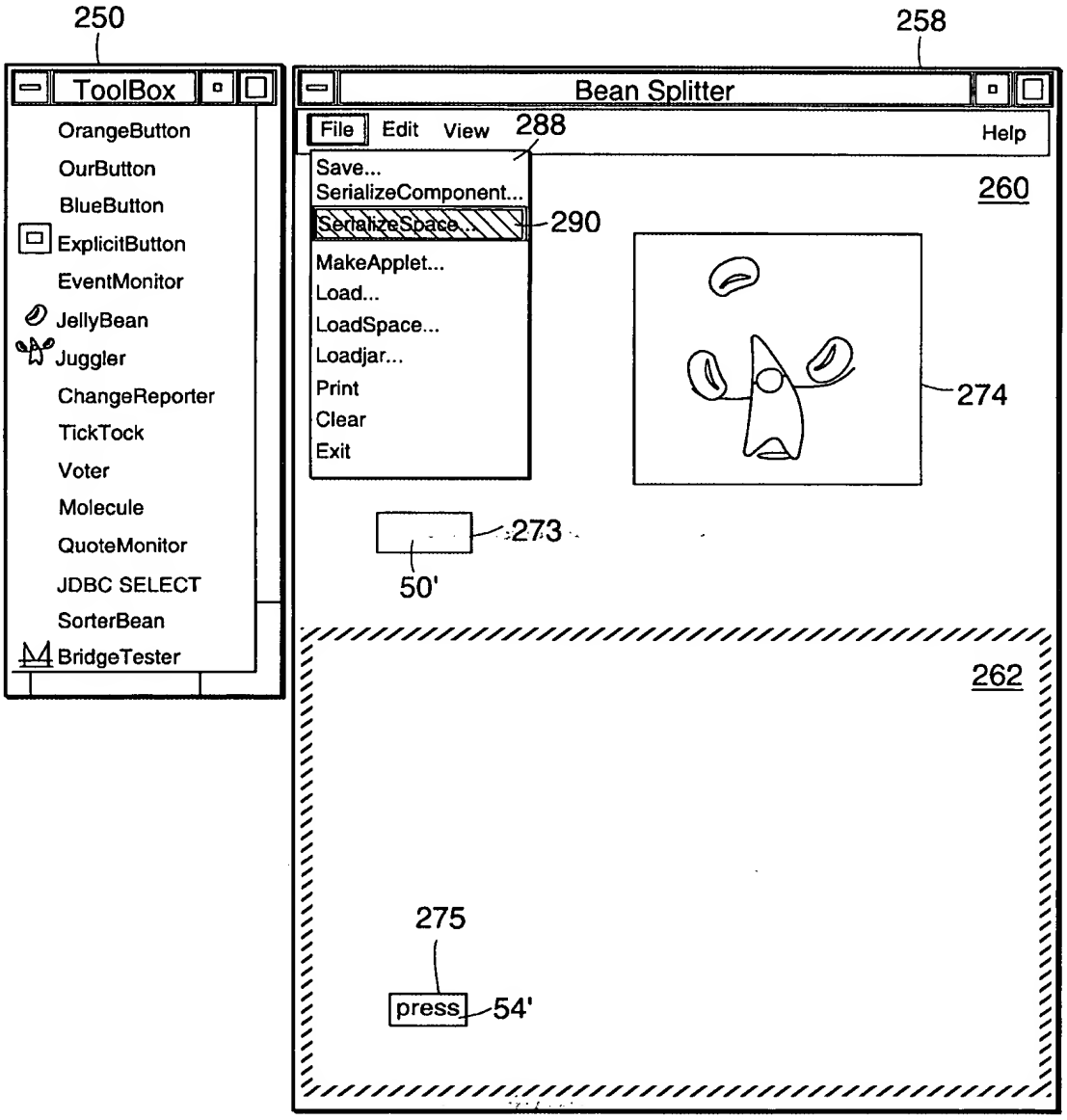

FIG. 6I

1002-0-0594840

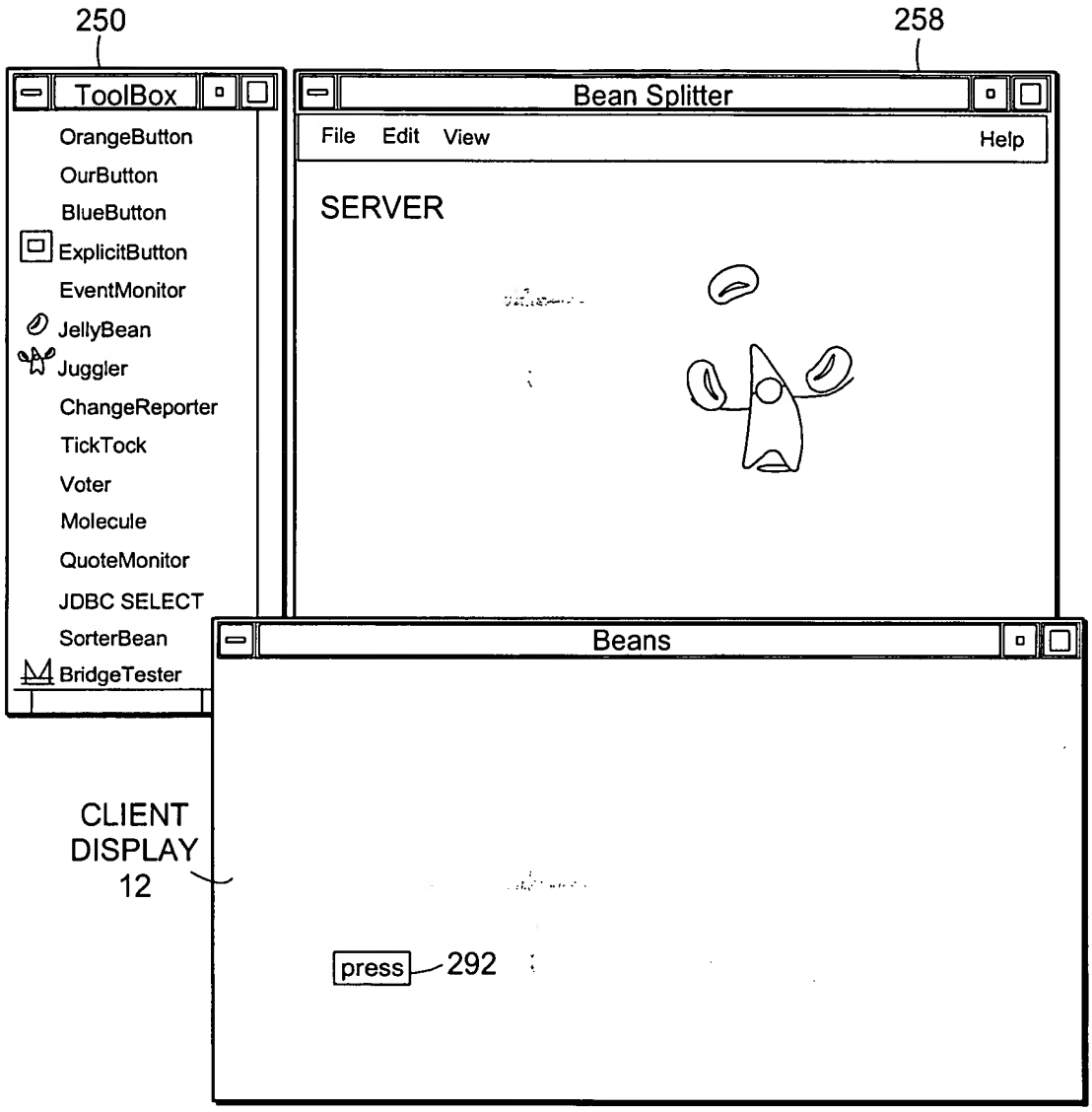

FIG. 6J

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